

Problems compiling LIS with new OS on ...

This thread is locked [jonc](#) 33 posts since

Sep 20, 2007 Dear LIS group,

I am unable to link in a certain library with the OS upgrade on Discover. The error I'm receiving is as follows:

.
.

```
_I_9_1_049/lib/libO/Linux.intel.64.mpi.default -lesmf -lnetcdf_stubs -lstdc++  
-lrt -L/usr/local/other/hdfeos/2.15v1.00/lib/linux -lhdfeos -lGctp  
-L/usr/local/other/baselibs/v2_2rp2_213_9.1.042meta_new/Linux/lib -lmfhdf -ldf -ljpeg -lz -lm -lsz
```

IPO link: can not find -lmfhdf

ifort: error: problem during multi-file optimization compilation (code 1)

gmake: *** [LIS] Error 1

I already pointed to the newest hdfeso, but no luck. Does the hdfeos library need to be re-built for the new OS?

FYI, I've tried both the Intel9 and 10 modules.

Regards,

Jon Case Tags: lis, compile, discover

[rsyed](#) 27 posts since

Oct 18, 2007 **1. Re: Problems compiling LIS with new OS on Discover** Jul 18, 2008 9:53 AM

Hi Jon,

You'll need to point your application build process to our Baselibs installation, which includes HDF-EOS, HDF, ESMF, and other libraries. In pointing to the standalone HDF-EOS installation, various other dependencies are missing.

The baselibs packages are installed in: /usr/local/other/baselibs . I would recommend /usr/local/other/baselibs/ESMF222rp3_NetCDF362b6_10.1.017/Linux/lib (using the Intel v10 compiler of course).

Thanks,

Rahman

[sujoy](#) 118 posts since

Sep 20, 2007 **2. Re: Problems compiling LIS with new OS on Discover** Jul 18, 2008 10:39 AM

in response to: [rsyed](#) Jon,

I have compiled the esmf_2_2_2rp3 under /discover/nobackup/projects/lis/esmf_2_2_2rp3_intel_10_1_017 as well.

The modules that I am currently using are:

1) comp/intel-10.1.017 3) lib/mkl-10.0.3.020

2) mpi/scali-5

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You should be able to use the build that Rahman pointed you to.

-Sujoy

[jonc](#) 33 posts since

Sep 20, 2007 **3. Re: Problems compiling LIS with new OS on Discover** Jul 18, 2008 10:53 AM

in response to: [sujoy](#)

Sujoy,

Is there any support for the Intel 9.1.042 or 9.1.052 compiler? All the tests that I ran used Intel v9 compiler since we had trouble compiling WRF with Intel 10.

Thanks,

Jon

[rsyed](#) 27 posts since

Oct 18, 2007 **4. Re: Problems compiling LIS with new OS on Discover** Jul 18, 2008 10:57 AM

in response to: [jonc](#) Hi Jon,

I know your question was directed to Sujoy, but you've had trouble running WRF with Intel 10? In our group we've supported a few users running WRF with Intel10, and we've built/run the tutorial on the WRF website. Is there any code customization you are performing?

If you would like to proceed with Intel v9 though, we do have Baselibs built:
/usr/local/other/baselibs/ESMF222rp3_NetCDF362b6_9.1.052/Linux/lib

Thanks,

Rahman

[jonc](#) 33 posts since

Sep 20, 2007 **5. Re: Problems compiling LIS with new OS on Discover** Jul 18, 2008 11:36 AM

in response to: [rsyed](#)

Dear Rahman,

I will go ahead and transition everything to Intel10. I'll see if we can successfully compile our modified WRF version with this compiler. If not, then I'll get back with you so we can trouble-shoot.

Thanks,

Jon